

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/698,311A  
Source: 1fw16  
Date Processed by STIC: 9/26/05

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/698,311A

DATE: 09/26/2005

TIME: 11:00:05

Input Set : D:\04-372 (400.137)\_SeqList.txt  
 Output Set: N:\CRF4\09262005\J698311A.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.  
 4       McSwiggen, James  
 5       Haeberli, Peter  
 6       Chowrira, Bharat  
 8 <120> TITLE OF INVENTION: RNA Interference Mediated Treatment of Parkinson Disease

Using

9       Short Interfering Nucleic Acid (siNA)  
 11 <130> FILE REFERENCE: 04-372 (400/137)  
 13 <140> CURRENT APPLICATION NUMBER: US 10/698,311A  
 14 <141> CURRENT FILING DATE: 2003-10-31  
 16 <150> PRIOR APPLICATION NUMBER: PCT/US03/05028  
 17 <151> PRIOR FILING DATE: 2003-02-20  
 19 <150> PRIOR APPLICATION NUMBER: US 60/358,580  
 20 <151> PRIOR FILING DATE: 2002-02-20  
 22 <150> PRIOR APPLICATION NUMBER: US 60/363,124  
 23 <151> PRIOR FILING DATE: 2002-03-11  
 25 <150> PRIOR APPLICATION NUMBER: US 60/386,782  
 26 <151> PRIOR FILING DATE: 2002-06-06  
 28 <150> PRIOR APPLICATION NUMBER: US 60/393,796  
 29 <151> PRIOR FILING DATE: 2002-07-03  
 31 <150> PRIOR APPLICATION NUMBER: 60/399,348  
 32 <151> PRIOR FILING DATE: 2002-07-29  
 34 <150> PRIOR APPLICATION NUMBER: US 60/406,784  
 35 <151> PRIOR FILING DATE: 2002-08-29  
 37 <150> PRIOR APPLICATION NUMBER: US 60/408,378  
 38 <151> PRIOR FILING DATE: 2002-09-05  
 40 <150> PRIOR APPLICATION NUMBER: US 60/409,293  
 41 <151> PRIOR FILING DATE: 2002-09-09  
 43 <150> PRIOR APPLICATION NUMBER: US 60/440,129  
 44 <151> PRIOR FILING DATE: 2003-01-15  
 46 <160> NUMBER OF SEQ ID NOS: 311  
 48 <170> SOFTWARE: PatentIn version 3.2  
 50 <210> SEQ ID NO: 1  
 51 <211> LENGTH: 19  
 52 <212> TYPE: RNA  
 53 <213> ORGANISM: Artificial Sequence  
 55 <220> FEATURE:  
 56 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 57       region  
 59 <400> SEQUENCE: 1  
 60 aguggccauu cgacgacag  
 63 <210> SEQ ID NO: 2  
 64 <211> LENGTH: 19  
 65 <212> TYPE: RNA

19

RAW SEQUENCE LISTING DATE: 09/26/2005  
PATENT APPLICATION: US/10/698,311A TIME: 11:00:05

Input Set : D:\04-372 (400.137)\_SeqList.txt  
Output Set: N:\CRF4\09262005\J698311A.raw

66 <213> ORGANISM: Artificial Sequence  
68 <220> FEATURE:  
69 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
71 <400> SEQUENCE: 2  
72 guguggugua aaggaaauuc 19  
75 <210> SEQ ID NO: 3  
76 <211> LENGTH: 19  
77 <212> TYPE: RNA  
78 <213> ORGANISM: Artificial Sequence  
80 <220> FEATURE:  
81 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
83 <400> SEQUENCE: 3  
84 cauuagccau ggauguauu 19  
87 <210> SEQ ID NO: 4  
88 <211> LENGTH: 19  
89 <212> TYPE: RNA  
90 <213> ORGANISM: Artificial Sequence  
92 <220> FEATURE:  
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
95 <400> SEQUENCE: 4  
96 ucaugaaagg acuuucaaa 19  
99 <210> SEQ ID NO: 5  
100 <211> LENGTH: 19  
101 <212> TYPE: RNA  
102 <213> ORGANISM: Artificial Sequence  
104 <220> FEATURE:  
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
107 <400> SEQUENCE: 5  
108 aggccaagga gggaguugu 19  
111 <210> SEQ ID NO: 6  
112 <211> LENGTH: 19  
113 <212> TYPE: RNA  
114 <213> ORGANISM: Artificial Sequence  
116 <220> FEATURE:  
117 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
119 <400> SEQUENCE: 6  
120 uggcugcugc ugagaaaac 19  
123 <210> SEQ ID NO: 7  
124 <211> LENGTH: 19  
125 <212> TYPE: RNA  
126 <213> ORGANISM: Artificial Sequence  
128 <220> FEATURE:  
129 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
131 <400> SEQUENCE: 7  
132 ccaaacaggg uguggcaga 19  
135 <210> SEQ ID NO: 8  
136 <211> LENGTH: 19  
137 <212> TYPE: RNA  
138 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 09/26/2005  
PATENT APPLICATION: US/10/698,311A TIME: 11:00:05

Input Set : D:\04-372 (400.137)\_SeqList.txt  
Output Set: N:\CRF4\09262005\J698311A.raw

140 <220> FEATURE:  
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
143 <400> SEQUENCE: 8  
144 aaggcagg aaagacaaa 19  
147 <210> SEQ ID NO: 9  
148 <211> LENGTH: 19  
149 <212> TYPE: RNA  
150 <213> ORGANISM: Artificial Sequence  
153 <220> FEATURE:  
154 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
156 <400> SEQUENCE: 9  
157 aagagggugu ucucuaugu 19  
160 <210> SEQ ID NO: 10  
161 <211> LENGTH: 19  
162 <212> TYPE: RNA  
163 <213> ORGANISM: Artificial Sequence  
165 <220> FEATURE:  
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
168 <400> SEQUENCE: 10  
169 uaggcuccaa aaccaagga 19  
172 <210> SEQ ID NO: 11  
173 <211> LENGTH: 19  
174 <212> TYPE: RNA  
175 <213> ORGANISM: Artificial Sequence  
177 <220> FEATURE:  
178 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
180 <400> SEQUENCE: 11  
181 agggaguggu gcauggugu 19  
184 <210> SEQ ID NO: 12  
185 <211> LENGTH: 19  
186 <212> TYPE: RNA  
187 <213> ORGANISM: Artificial Sequence  
189 <220> FEATURE:  
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
192 <400> SEQUENCE: 12  
193 uggcaacagu ggcugagaa 19  
196 <210> SEQ ID NO: 13  
197 <211> LENGTH: 19  
198 <212> TYPE: RNA  
199 <213> ORGANISM: Artificial Sequence  
201 <220> FEATURE:  
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
204 <400> SEQUENCE: 13  
205 agaccaaaga gcaagugac 19  
208 <210> SEQ ID NO: 14  
209 <211> LENGTH: 19  
210 <212> TYPE: RNA  
211 <213> ORGANISM: Artificial Sequence  
213 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 09/26/2005  
PATENT APPLICATION: US/10/698,311A TIME: 11:00:05

Input Set : D:\04-372 (400.137)\_SeqList.txt  
Output Set: N:\CRF4\09262005\J698311A.raw

214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
216 <400> SEQUENCE: 14  
217 caaauguugg aggagcagu 19  
220 <210> SEQ ID NO: 15  
221 <211> LENGTH: 19  
222 <212> TYPE: RNA  
223 <213> ORGANISM: Artificial Sequence  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
228 <400> SEQUENCE: 15  
229 uggugacggg ugugacagc 19  
232 <210> SEQ ID NO: 16  
233 <211> LENGTH: 19  
234 <212> TYPE: RNA  
235 <213> ORGANISM: Artificial Sequence  
237 <220> FEATURE:  
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
240 <400> SEQUENCE: 16  
241 caguagccca gaagacagu 19  
244 <210> SEQ ID NO: 17  
245 <211> LENGTH: 19  
246 <212> TYPE: RNA  
247 <213> ORGANISM: Artificial Sequence  
249 <220> FEATURE:  
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
252 <400> SEQUENCE: 17  
253 uggagggagc agggagcau 19  
256 <210> SEQ ID NO: 18  
257 <211> LENGTH: 19  
258 <212> TYPE: RNA  
259 <213> ORGANISM: Artificial Sequence  
261 <220> FEATURE:  
262 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
264 <400> SEQUENCE: 18  
265 uugcagcagc cacuggcuu 19  
268 <210> SEQ ID NO: 19  
269 <211> LENGTH: 19  
270 <212> TYPE: RNA  
271 <213> ORGANISM: Artificial Sequence  
273 <220> FEATURE:  
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
276 <400> SEQUENCE: 19  
277 uugucaaaaa ggaccaguu 19  
280 <210> SEQ ID NO: 20  
281 <211> LENGTH: 19  
282 <212> TYPE: RNA  
283 <213> ORGANISM: Artificial Sequence  
285 <220> FEATURE:  
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

RAW SEQUENCE LISTING DATE: 09/26/2005  
PATENT APPLICATION: US/10/698,311A TIME: 11:00:05

Input Set : D:\04-372 (400.137)\_SeqList.txt  
Output Set: N:\CRF4\09262005\J698311A.raw

288 <400> SEQUENCE: 20  
289 ugggcaagaa ugaagaagg 19  
292 <210> SEQ ID NO: 21  
293 <211> LENGTH: 19  
294 <212> TYPE: RNA  
295 <213> ORGANISM: Artificial Sequence  
297 <220> FEATURE:  
298 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
300 <400> SEQUENCE: 21  
301 gagccccaca ggaaggaaau 19  
304 <210> SEQ ID NO: 22  
305 <211> LENGTH: 19  
306 <212> TYPE: RNA  
307 <213> ORGANISM: Artificial Sequence  
309 <220> FEATURE:  
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
312 <400> SEQUENCE: 22  
313 uucuggaaga uaugccugu 19  
316 <210> SEQ ID NO: 23  
317 <211> LENGTH: 19  
318 <212> TYPE: RNA  
319 <213> ORGANISM: Artificial Sequence  
321 <220> FEATURE:  
322 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
324 <400> SEQUENCE: 23  
325 uggauccuga caauggggc 19  
328 <210> SEQ ID NO: 24  
329 <211> LENGTH: 19  
330 <212> TYPE: RNA  
332 <213> ORGANISM: Artificial Sequence  
334 <220> FEATURE:  
335 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
337 <400> SEQUENCE: 24  
338 cuuaugaaau gccuucuga 19  
341 <210> SEQ ID NO: 25  
342 <211> LENGTH: 19  
343 <212> TYPE: RNA  
344 <213> ORGANISM: Artificial Sequence  
346 <220> FEATURE:  
347 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
349 <400> SEQUENCE: 25  
350 aggaaggguu ucaagacua 19  
353 <210> SEQ ID NO: 26  
354 <211> LENGTH: 19  
355 <212> TYPE: RNA  
356 <213> ORGANISM: Artificial Sequence  
359 <220> FEATURE:  
360 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
362 <400> SEQUENCE: 26

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/26/2005  
PATENT APPLICATION: US/10/698,311A TIME: 11:00:06

Input Set : D:\04-372 (400.137)\_SeqList.txt  
Output Set: N:\CRF4\09262005\J698311A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:253; N Pos. 20,21  
Seq#:254; N Pos. 20,21  
Seq#:255; N Pos. 20,21  
Seq#:256; N Pos. 20,21  
Seq#:257; N Pos. 20,21  
Seq#:258; N Pos. 20,21  
Seq#:259; N Pos. 20,21  
Seq#:260; N Pos. 20,21  
Seq#:261; N Pos. 20,21  
Seq#:262; N Pos. 20,21  
Seq#:263; N Pos. 20,21  
Seq#:264; N Pos. 20,21  
Seq#:265; N Pos. 20,21  
Seq#:266; N Pos. 20,21  
Seq#:267; N Pos. 20,21  
Seq#:268; N Pos. 20,21  
Seq#:269; N Pos. 20,21  
Seq#:270; N Pos. 20,21  
Seq#:271; N Pos. 20,21  
Seq#:272; N Pos. 20,21  
Seq#:273; N Pos. 20,21  
Seq#:274; N Pos. 20,21  
Seq#:275; N Pos. 20,21  
Seq#:276; N Pos. 20,21  
Seq#:277; N Pos. 20,21  
Seq#:278; N Pos. 20,21  
Seq#:279; N Pos. 20,21  
Seq#:280; N Pos. 20,21  
Seq#:281; N Pos. 20,21  
Seq#:282; N Pos. 20,21  
Seq#:283; N Pos. 20,21  
Seq#:284; N Pos. 20,21  
Seq#:285; N Pos. 20,21  
Seq#:286; N Pos. 20,21  
Seq#:287; N Pos. 20,21  
Seq#:288; N Pos. 20,21  
Seq#:289; N Pos. 20,21  
Seq#:290; N Pos. 20,21  
Seq#:291; N Pos. 20,21  
Seq#:292; N Pos. 20,21  
Seq#:293; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:294; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:295; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:296; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 09/26/2005  
**PATENT APPLICATION: US/10/698,311A** TIME: 11:00:06

Input Set : D:\04-372 (400.137)\_SeqList.txt  
Output Set: N:\CRF4\09262005\J698311A.raw

Seq#:297; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:298; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:299; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:300; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:301; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:302; N Pos. 20,21  
Seq#:303; N Pos. 20,21

### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:253

## VERIFICATION SUMMARY

DATE: 09/26/2005

PATENT APPLICATION: US/10/698,311A

TIME: 11:00:06

Input Set : D:\04-372 (400.137) SeqList.txt

Output Set: N:\CRF4\09262005\J698311A.raw

L:3104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253 after pos.:0  
 L:3123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254 after pos.:0  
 L:3141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:0  
 L:3159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:0  
 L:3177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:0  
 L:3195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:0  
 L:3213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:259 after pos.:0  
 L:3231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260 after pos.:0  
 L:3289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261 after pos.:0  
 L:3327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:0  
 L:3380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263 after pos.:0  
 L:3433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264 after pos.:0  
 L:3482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265 after pos.:0  
 L:3520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266 after pos.:0  
 L:3569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267 after pos.:0  
 L:3612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268 after pos.:0  
 L:3695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:269 after pos.:0  
 L:3754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:270 after pos.:0  
 L:3832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:271 after pos.:0  
 L:3905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:272 after pos.:0  
 L:3984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:273 after pos.:0  
 L:4032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:0  
 L:4105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275 after pos.:0  
 L:4173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276 after pos.:0  
 L:4231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:277 after pos.:0  
 L:4284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278 after pos.:0  
 L:4362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:0  
 L:4440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:0  
 L:4519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281 after pos.:0  
 L:4567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282 after pos.:0  
 L:4640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:283 after pos.:0  
 L:4703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:0  
 L:4731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:0  
 L:4759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286 after pos.:0  
 L:4787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:0  
 L:4815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288 after pos.:0  
 L:4838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289 after pos.:0  
 L:4861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:0  
 L:4884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291 after pos.:0  
 L:4908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:0  
 L:4935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293 after pos.:0  
 L:4962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:0  
 L:4990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295 after pos.:0  
 L:5024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:0  
 L:5057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297 after pos.:0  
 L:5090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:0  
 L:5123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299 after pos.:0  
 L:5156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300 after pos.:0

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/698,311A

DATE: 09/26/2005

TIME: 11:00:06

Input Set : D:\04-372 (400.137)\_SeqList.txt  
Output Set: N:\CRF4\09262005\J698311A.raw

L:5189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301 after pos.:0  
L:5216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:0  
L:5295 M:283 W: Missing Blank Line separator, <220> field identifier